

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Original) A computer controlled method comprising:
2 establishing communication between a provisioning device
3 and a network device over a preferred channel;
4 exchanging key commitment information over said preferred channel
5 between said provisioning device and said network device to pre-
6 authenticate said network device; and
7 providing provisioning information to said network device over said
8 preferred channel, whereby said network device can automatically
9 configure itself for communication over a network responsive to said
10 provisioning information.

- 1 2. (Original) The computer controlled method of claim 1, wherein said
2 provisioning information comprises network configuration information.

- 1 3. (Original) The computer controlled method of claim 1, further comprising
2 receiving a public key from said network device;
3 verifying said public key with said key commitment information; and
4 automatically provisioning said network device with a credential
5 authorized by a credential issuing authority.

- 1 4. (Original) The computer controlled method of claim 3, further comprising
2 establishing proof that said network device is in possession of a private
3 key corresponding to said public key.
- 1 5. (Original) The computer controlled method of claim 3, wherein said
2 credential issuing authority is a certification authority and said credential is
3 a public key certificate.
- 1 6. (Original) The computer controlled method of claim 3, wherein the step of
2 automatically provisioning is responsive to authorization from a
3 registration agent.
- 1 7. (Original) The computer controlled method of claim 1, wherein said
2 preferred channel is a location-limited channel.
- 1 8. (Original) The computer controlled method of claim 1, wherein said
2 preferred channel has a demonstrative identification property and an
3 authenticity property.
- 1 9. (Original) The computer controlled method of claim 1, wherein the
2 network is a wireless network, and wherein said provisioning device is a
3 wireless access point.
- 1 10. (Original) The computer controlled method of claim 9, further comprising:
2 receiving a wireless communication;
3 determining whether said wireless communication originated from
4 said network device or from a second network device that was not
5 provisioned by said wireless access point; and

6 routing said wireless communication responsive to the step of
7 determining.

1 11. (Original) The computer controlled method of claim 10, wherein the step
2 of routing comprises:
3 choosing a selected channel from a secure channel and an insecure
4 channel responsive to the step of determining; and
5 sending said wireless communication through said selected channel.

1 12. (Original) The computer controlled method of claim 1, wherein said
2 provisioning device is in communication with a credential issuing
3 authority.

1 13. (Original) A computer-readable storage medium storing instructions that
2 when executed by a computer cause the computer to perform a method to
3 provision a network device, the method comprising steps of:
4 establishing communication between a provisioning device and said
5 network 5 device over a preferred channel;
6 exchanging key commitment information over said preferred channel
7 between said provisioning device and said network device to pre-
8 authenticate said network device; and
9 providing provisioning information to said network device over said
10 preferred channel, whereby said network device can automatically
11 configure itself for communication over a network responsive to said
12 provisioning information.

1 14. (Original) The computer-readable storage medium of claim 13, further
2 comprising

3 receiving a public key from said network device;
4 verifying said public key with said key commitment information; and
5 automatically provisioning said network device with a credential
6 authorized by a credential issuing authority.

1 15. (Original) The computer-readable storage medium of claim 13, wherein
2 the network is a wireless network, and wherein said provisioning device is
3 a wireless access point.

1 16. (Original) An apparatus for provisioning a network device comprising:
2 at least one port configured to establish a preferred channel;
3 a preferred communication mechanism configured to be able to
4 establish communication with and said network device over said preferred
5 channel;
6 a pre-authentication mechanism configured to be able to receive key
7 commitment information over said preferred channel from said network
8 device; and
9 a provisioning mechanism configured to be able to provide
10 provisioning information to said network device over said preferred
11 channel, whereby said network device can automatically configure itself
12 for communication over a network responsive to said provisioning
13 information.

1 17. (Original) The apparatus of claim 16, wherein said provisioning
2 information comprises network configuration information.

1 18. (Original) The apparatus of claim 16, further comprising
2 a key reception mechanism configured to receive a public key;

3 a key verification mechanism configured to verify said public key
4 with said key commitment information; and
5 a credential provisioning mechanism configured to automatically
6 provide a credential authorized by a credential issuing authority.

1 19. (Original) The apparatus of claim 18, further comprising a key exchange
2 mechanism configured to be able to perform a key exchange protocol with said
3 network device.

1 20. (Original) The apparatus of claim 18, wherein said credential issuing
2 authority is a certification authority and said credential is a public key
3 certificate.

1 21. (Original) The apparatus of claim 16, wherein said preferred channel is a
2 location-limited channel.

1 22. (Original) The apparatus of claim 16, wherein the network is a wireless
2 network, and the apparatus further comprises a wireless access point
3 mechanism.

1 23. (Original) The apparatus of claim 22, further comprising:
2 a packet receiver mechanism configured to receive a wireless
3 communication;
4 a determination mechanism configured to determine whether said
5 wireless communication received by the packet receiver mechanism
6 originated from said network device or from a second network device that
7 was not provisioned by said wireless access point; and
8 a router mechanism configured to route said wireless communication

9 responsive to the determination mechanism.

1 24. (Original) The apparatus of claim 23, wherein the router mechanism
2 further comprises:
3 a channel selection mechanism configured to choose a selected
4 channel from a secure channel and an insecure channel responsive to the
5 determination mechanism; and
6 a transmission mechanism configured to send said wireless
7 communication through said selected channel.

1 25. (Original) The apparatus of claim 16, further comprising a non-preferred
2 communication mechanism that can be used to communicate with a
3 credential issuing authority.

26-66 (Canceled)